



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

**E.S. Windows, LLC**  
**10653 NE Quaybridge Ct.**  
**Miami, FL 33138**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION:** ES Series "V4000" PVC Sliding Glass Door (reinforced)

**APPROVAL DOCUMENT:** Drawing No. **W10-29**, titled "Series V4000 PVC Sliding Glass Door (LMI)", sheets 1 through 6 of 6, prepared by Al-Farooq Corporation, dated 05-03-10 and last revised on DEC 27, 2011, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** Large and Small Missile Impact Resistant

**Limitations:**

1. See sheet 5 for applicable reinforcements at panel stiles, rails and interlocks.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises** NOA # **10-0629.06** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

4/3/12  
**MIAMI-DADE COUNTY**  
**APPROVED**

**NOA No 12-0130.39**  
**Expiration Date: December 23, 2015**  
**Approval Date: April 12, 2012**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections (transferred from file # **10-0629.06**)
2. Drawing No. **W10-29**, titled "Series V4000 PVC Sliding Glass Door (LMI)", sheets 1 through 6 of 6, prepared by Al-Farooq Corporation, dated 05-03-10 and last revised on DEC 27, 2011, signed and sealed by Javad Ahmad, P.E.

Note: This revision consists of FBC 2010 notes only.

**B. TESTS (transferred from file # 10-0629.06)**

1. Test reports on:
  - 1) Air Infiltration Test, per FBC, TAS 202-94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with marked-up drawing and installation diagram of Vinyl Sliding Glass Door, prepared by National Certified Testing Laboratory, Inc., No. **NCTL-110-12836-1**, dated 02/06/08 and last revised on 10/25/10, signed and sealed by Harold E. Rupp, P.E.

Note: This report has an addendum letter dated 10/25/10 issued by NCTL, signed and sealed by Harold E. Rupp, P.E.

**C. CALCULATIONS**

1. Statement letter of conformance to FBC 2010, prepared by Al Farooq Corporation, dated 12/21/11, signed and sealed by Javad Ahmad, P.E.
2. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al Farooq Corporation, dated 06/25/10 and last revised on 12/02/10, signed and sealed by Javad Ahmad, P.E. (transferred from file # **10-0629.06**)
3. Glazing complies w/ ASTM E-1300-02 & -04

**D. QUALITY ASSURANCE**

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

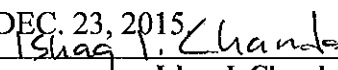
1. Notice of Acceptance No. **08-0620.09** issued to Thermoplast, Inc. for their "**White Rigid PVC**", expiring on 07/05/12.
2. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass @ Plus**", expiring on 01/14/17.
3. Technical material cut sheet of Alum Alloy HELIMA-spacer, manufactured by Helmut Lingeman GmbH.

**F. STATEMENTS**

1. Statement letter of conformance 2010 and letter of no financial interest, prepared by Al Farooq Corporation, dated 12/21/11, signed and sealed by Javad Ahmad, P.E.
2. Statement letter of conformance 2007 and letter of no financial interest, prepared by Al Farooq Corporation, dated 06/04/10, signed and sealed by Javad Ahmad, P.E.
3. Laboratory compliance statements, part of the above referenced test reports.
4. Addendum letter dated 10/25/10 issued by National Certified Testing Lab, signed and sealed by Harold E. Rupp, P.E.
5. Distribution agreement ES Windows-Energia Solar, S.A. and ES Windows, LLC, dated 10/20/10, signed by Ms Carla G. Torrente and Andres Chamorro respectively.

**G. OTHER**

1. This NOA revises NOA # **10-0629.06**, expiring on DEC. 23, 2015

  
Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No 12-0130.39  
Expiration Date: December 23, 2015  
Approval Date: April 12, 2012

MAXIMUM DESIGN LOAD RATING = + 50.0  
(FOR SIZES SHOWN OR SMALLER) - 50.0 PSF  
AS PERMITTED BY FBC

## SERIES V4000 PVC SLIDING GLASS DOOR

THESE DOORS CAN BE INSTALLED AS SINGLE UNITS OR IN COMBINATION WITH MIAMI-DADE COUNTY APPROVED PRODUCTS USING MIAMI-DADE COUNTY APPROVED CLIPPED MULLIONS IN BETWEEN.  
LOWER DESIGN PRESSURES FROM DOORS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

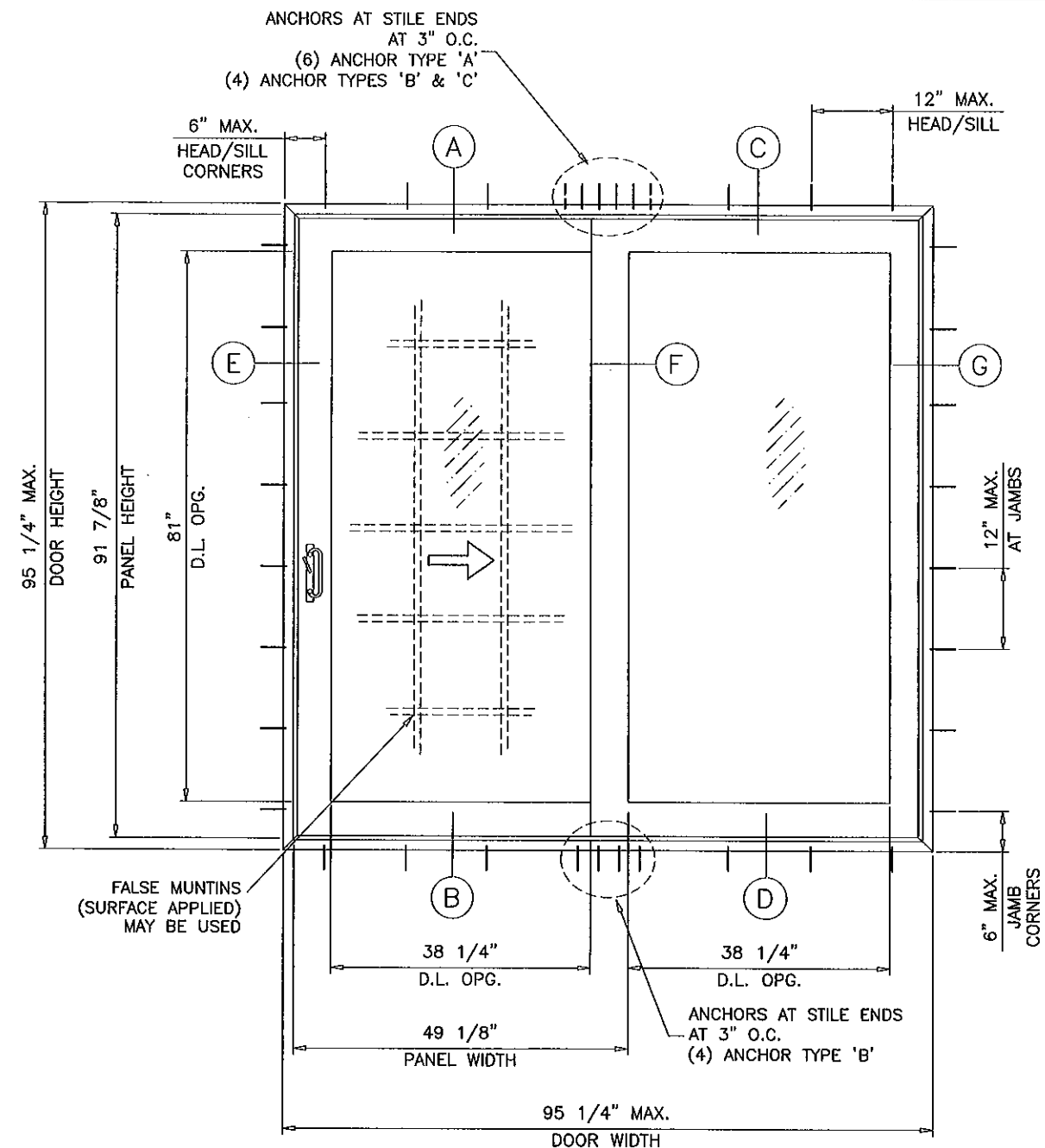
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.



TYPICAL ELEVATION

### PRODUCT REVISED

as complying with the Florida

Building Code

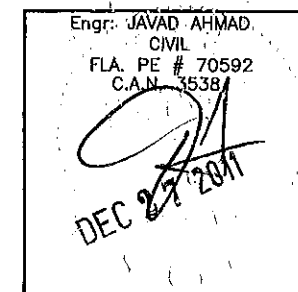
Amendment No. 12-0130.39

Expiration Date DEC 23, 2015

By: [Signature]

Product Control

LAMINATED INSULATING GLASS  
LARGE & SMALL MISSILE IMPACT



**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W05-03ES

**a f c**

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SERIES V4000 PVC SLIDING GLASS DOOR (L.M.I.)

**E.S. WINDOWS, LLC**  
5220 N.W. 72 AVE. BAY #4  
MIAMI, FL. 33166  
TEL (305) 624-7775 FAX. (305) 624-7777

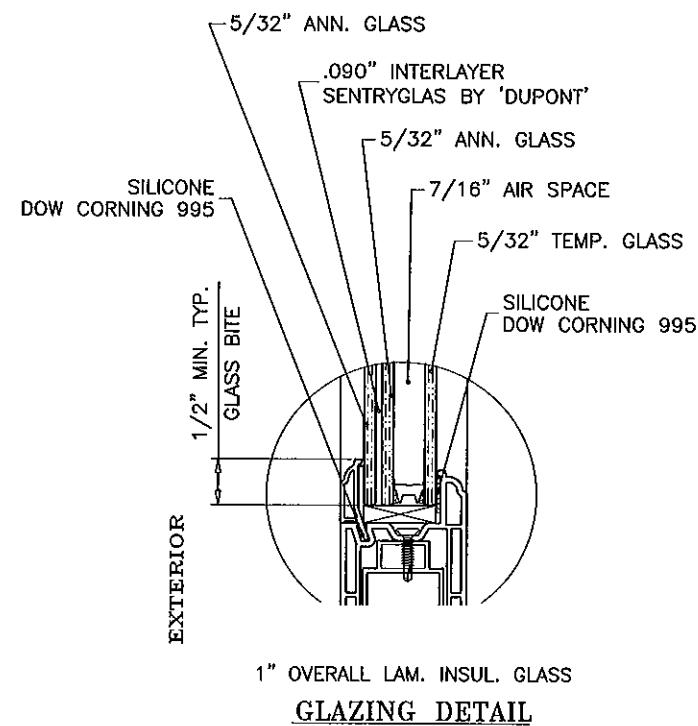
revisions:

no	date	by	description
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B	12.22.11	UPDATED TO 2010 FBC	

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date: 05-03-10  
scale: 1/2"=1'-0"  
dr. by: HAMID  
chk. by:

drawing no.  
**W10-29**  
sheet 1 of 6



NOTE:  
GLASS CAPACITIES ARE  
BASED ON ASTM E1300-04 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	S003	4/ DOOR	FLUSH FRAME	WHITE RIGID PVC	THERMOPLAST
2	S021	4/ PANEL	1" GLAZING BEAD	WHITE RIGID PVC	THERMOPLAST
3	S017	4/ PANEL	PANEL RAIL/STILE	WHITE RIGID PVC	THERMOPLAST
4	S008	1	SUPPORT BLOCK	WHITE RIGID PVC	THERMOPLAST
5	S018	2	SILL ADAPTOR	WHITE RIGID PVC	THERMOPLAST
6	7059	OPTIONAL	SCREEN ADAPTOR	WHITE RIGID PVC	THERMOPLAST
7	S084	2/ DOOR	SNAP-ON MEETING RAIL	WHITE RIGID PVC	THERMOPLAST
8	-	1	SILL COVER	6063-T6	-
9	-	1	SASH RAIL	6063-T6	-
10	-	OPTIONAL	SCREEN	6063-T6	-
11	-	AS REQD.	RAIL/STILE REINFORCEMENT	6063-T6	-
13	-	OPTIONAL	SCREEN ROLLER	-	-
14	110-2550-10	1/ WEEP	WEEP COVER	-	RO-MAI
15	-	2/ PANEL	TANDEM ROLLER	ST. STEEL	-
16	-	-	SETTING BLOCK (1" X 1/4" X 2" LONG)	-	DUROMETER 80
18	HF-7320-187	AS REQD.	WEATHERSTRIPPING	-	SCHLEGEL
19	SS-6945	AS REQD.	WEATHERSTRIPPING	-	SCHLEGEL
20	-	OPTIONAL	INT. AND EXT. SCREEN HANDLE	-	-
21	-	OPTIONAL	SCREEN KEEPER	-	-
22	-	-	SASH KEEPER	-	-
23	-	-	INT. AND EXT. SASH HANDLE	-	-
24	#6 X 1/2"	-	SCREEN KEEPER SCREWS	-	FH
25	#8 X 5/8"	-	SASH KEEPER SCREWS	-	FH
26	#8 X 1"	AS REQD.	FIXED PANEL SCREWS	-	FH
27	T5927AMW	-	6" WEATHERSTRIPPING	-	ULTRAFAB
28	EAQ705	-	SCREW PLUG	-	-
29	S030	-	LOCK SIDE MOLDING	-	-
30	#8 X 3/4"	-	REINFORCEMENT SCREWS	-	-
31	S029	-	PANEL STOP	WHITE RIGID PVC	THERMOPLAST
32	PB-8322-187	-	WEATHERSTRIPPING	-	SCHLEGEL
33	-	-	MEETING RAIL REINFORCEMENT	GALV. STEEL	Fy = 36 KSI
34	#6 X 3/4"	-	MEETING RAIL SCREWS	-	FH
35	-	-	SAFETY LOCK	-	RTG PROTECH
36	#8 X 3/4"	-	SAFETY LOCK SCREWS	-	PH, TETE RONDE

WHITE PVC EXTRUSIONS TO BE LABELED WITH AAMA EXTRUDER CODE,  
EXTRUDER NAME, CITY, STATE AND 'MDCA'.

PRODUCT REVISED  
to comply with the Florida  
Building Code  
Adoption No. 12-0130-39  
Expiration Date 12/23/15  
By Ishag I. Chah  
Miami Dade Product Control

Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538  
DEC 27 2011

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL (305) 264-8100 FAX. (305) 262-6978

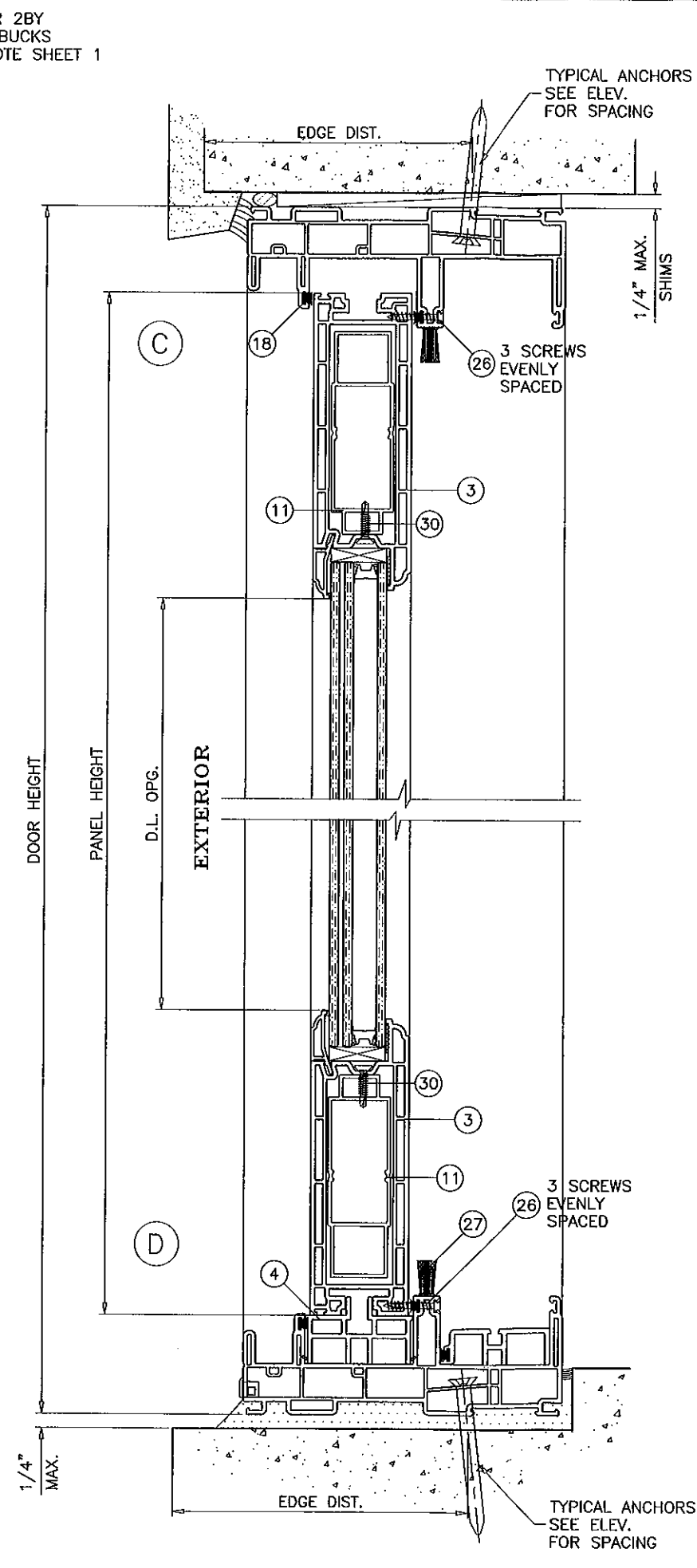
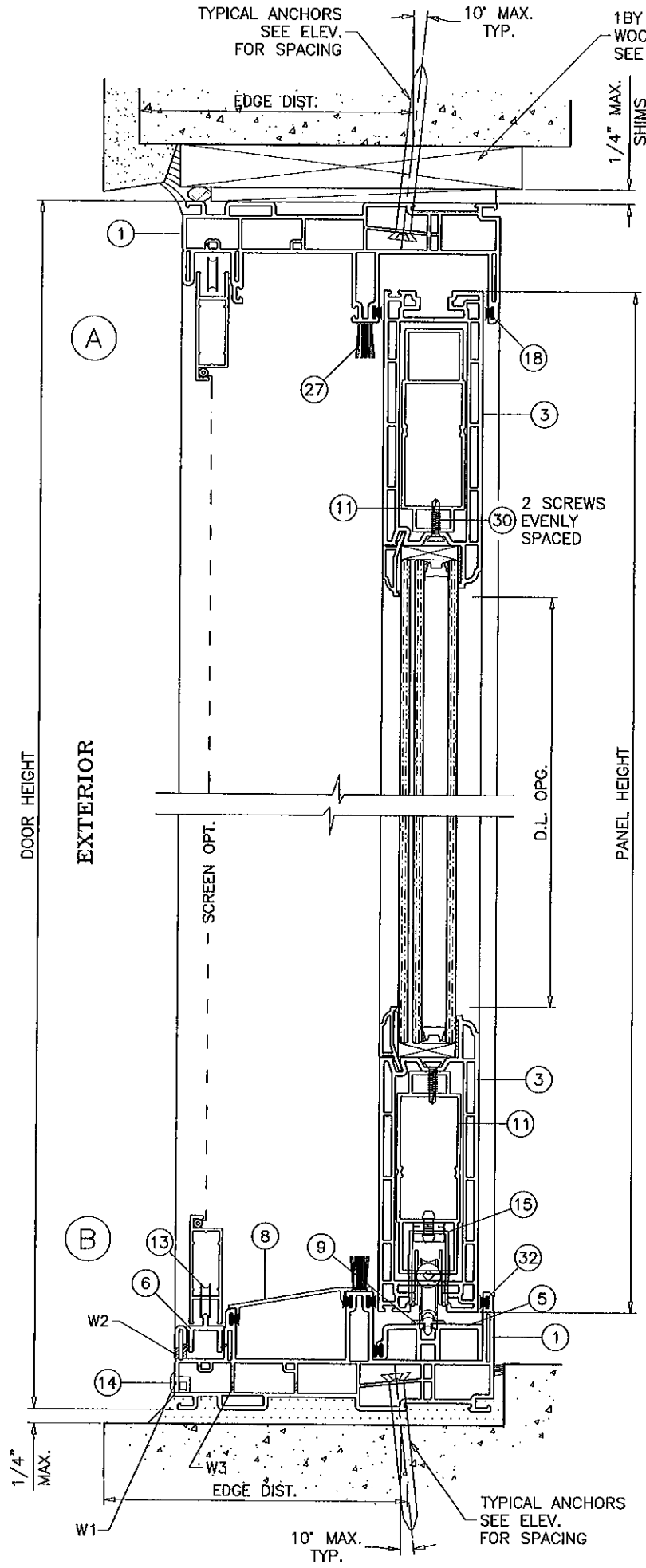
SERIES V4000 PVC SLIDING GLASS DOOR (L.M.I.)

**E.S. WINDOWS, LLC**  
5220 N.W. 72 AVE. BAY #4  
MIAMI, FL. 33166  
TEL (305) 624-7775 FAX. (305) 624-7777

revisions:		date	by	description	REV. PER BOCO	COMMENTS
NO	A	09.24.10				
	B	12.22.11				NO CHANGE THIS SHEET

date: 05-03-10  
scale: 3/8" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W10-29**  
sheet 2 of 6



**WEEPHOLES:**

- W1 = 5/16" X 1-1/2" WEEP SLOT AT 3-3/4" FROM EACH END WITH PLASTIC BAFFLE.
- W2 = 3/16" X 1" WEEP SLOT AT 3-5/8" FROM EACH END
- W3 = 3/16" X 1" WEEP SLOT AT 1-3/8" FROM EACH END

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 12-0130.39  
 Expiration Date 12/23/15  
 By: Ishag L. Lhank  
 National Door Product Control

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538  
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 COMP-ANL\W05-03ES

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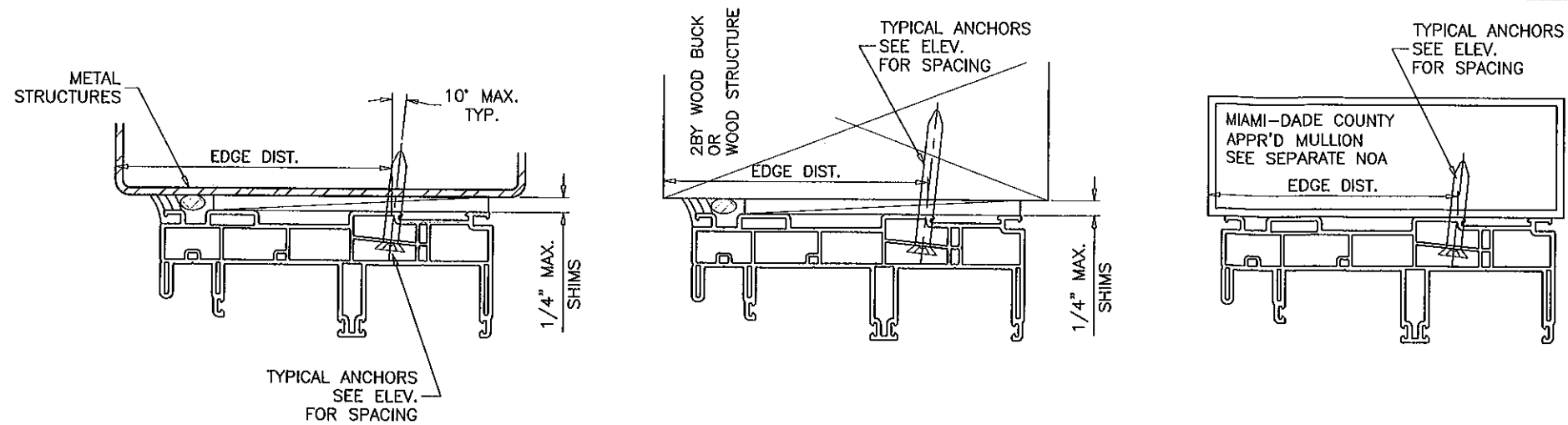
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 chk. by:

drawing no.  
**W10-29**  
 sheet 3 of 6



WOOD BUCKS AND METAL STRUCTURE NOT BY ES WINDOWS  
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM  
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

- TYPE 'A' - 1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)  
1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES (AT HEAD/JAMBS)  
 1-3/8" MIN. PENETRATION INTO WOOD  
 THRU 1BY BUCKS INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
- TYPE 'B' - 1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)  
1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)  
 DIRECTLY INTO CONC. OR MASONRY  
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
- TYPE 'C' - #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)  
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")  
 INTO METAL STRUCTURES  
 STEEL : 1/8 THK. MIN. (Fy = 36 KSI MIN.)  
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)


**TYPICAL EDGE DISTANCE**

INTO CONCRETE AND MASONRY = 2-1/2" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

**PRODUCT REVIEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 12-0130-39  
 Expiration Date 12/23/15  
 By Ishag I. Usman  
 Miami Dade Product Control

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE. # 70592  
 C.A.N. 3538  
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revisions:	
no	date by description
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B	12.22.11 NO CHANGE THIS SHEET

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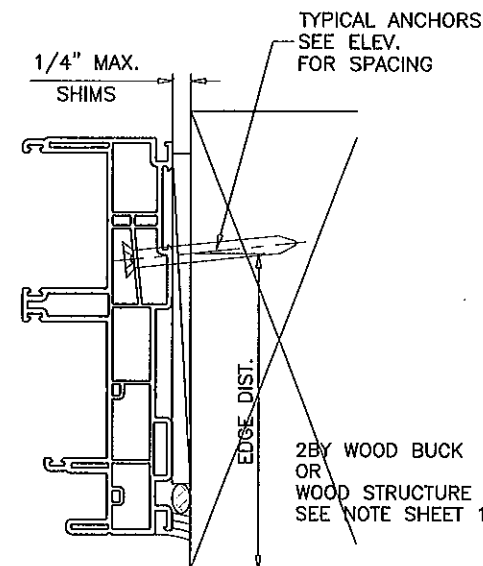
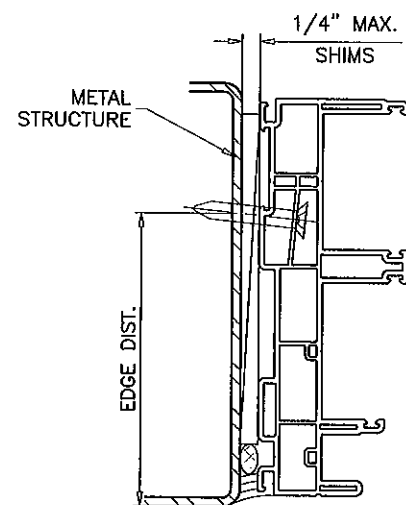
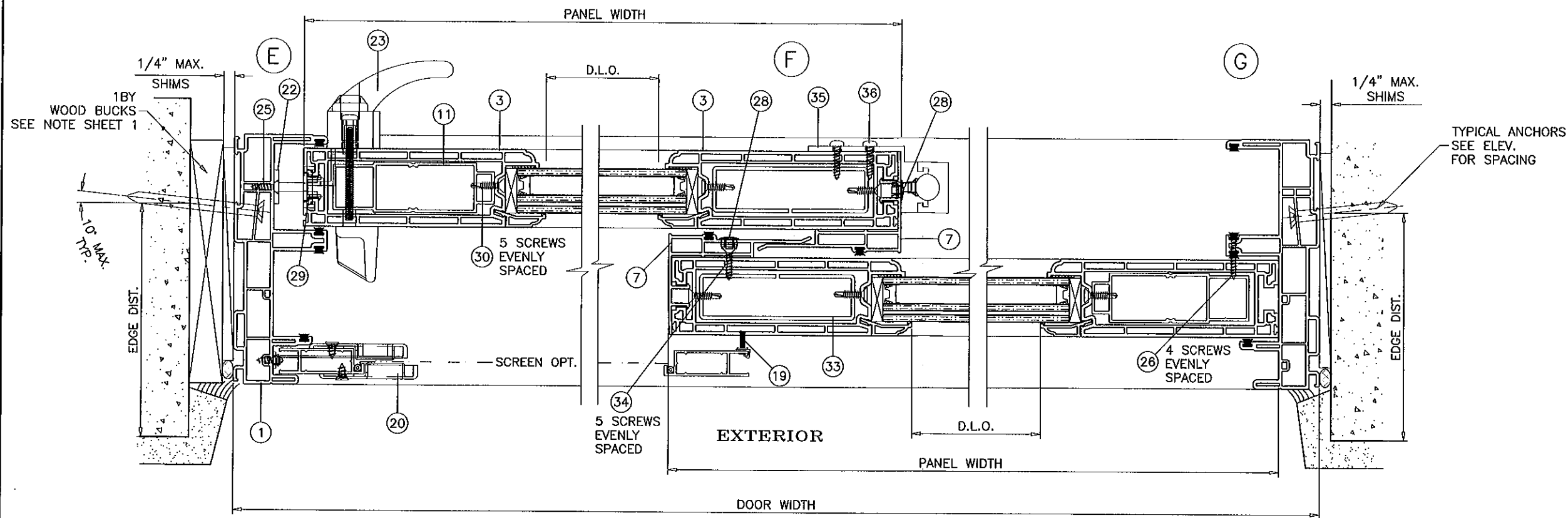
dr. by: HAMID

chk. by:

drawing no.

**W10-29**

sheet 4 of 6



**PRODUCT REVISED**  
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 Expiration Date 12/23/15  
 By Ishag I. Khamis  
 Miami Dade Product Control

Engr: JAVAD AHMAD  
 CIVIL  
 FLA. PE # 70592  
 C.A.N. 3538

*[Signature]*  
 DEC 27 2011

**af c**  
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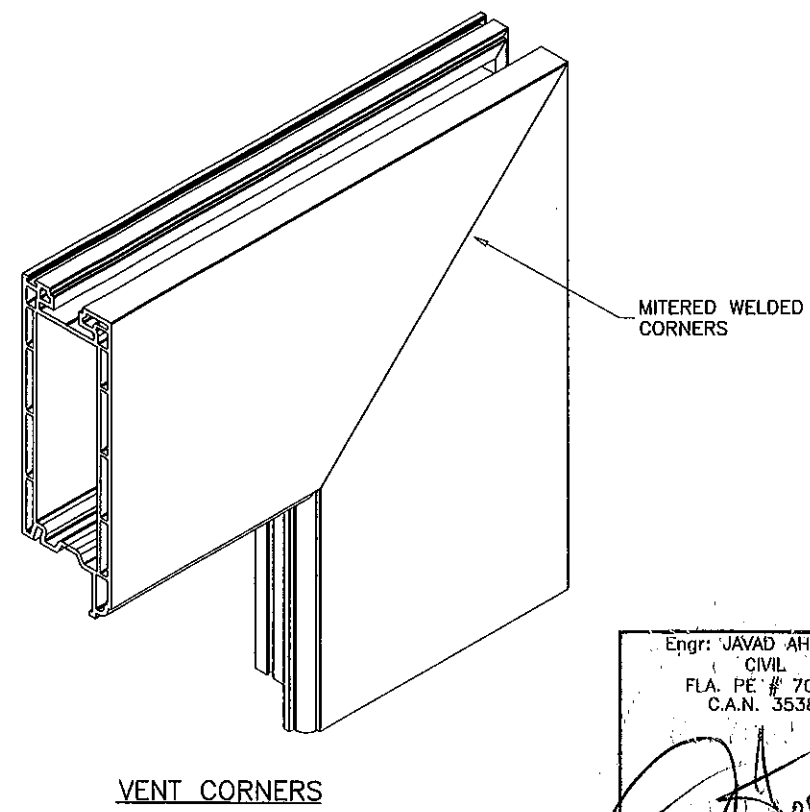
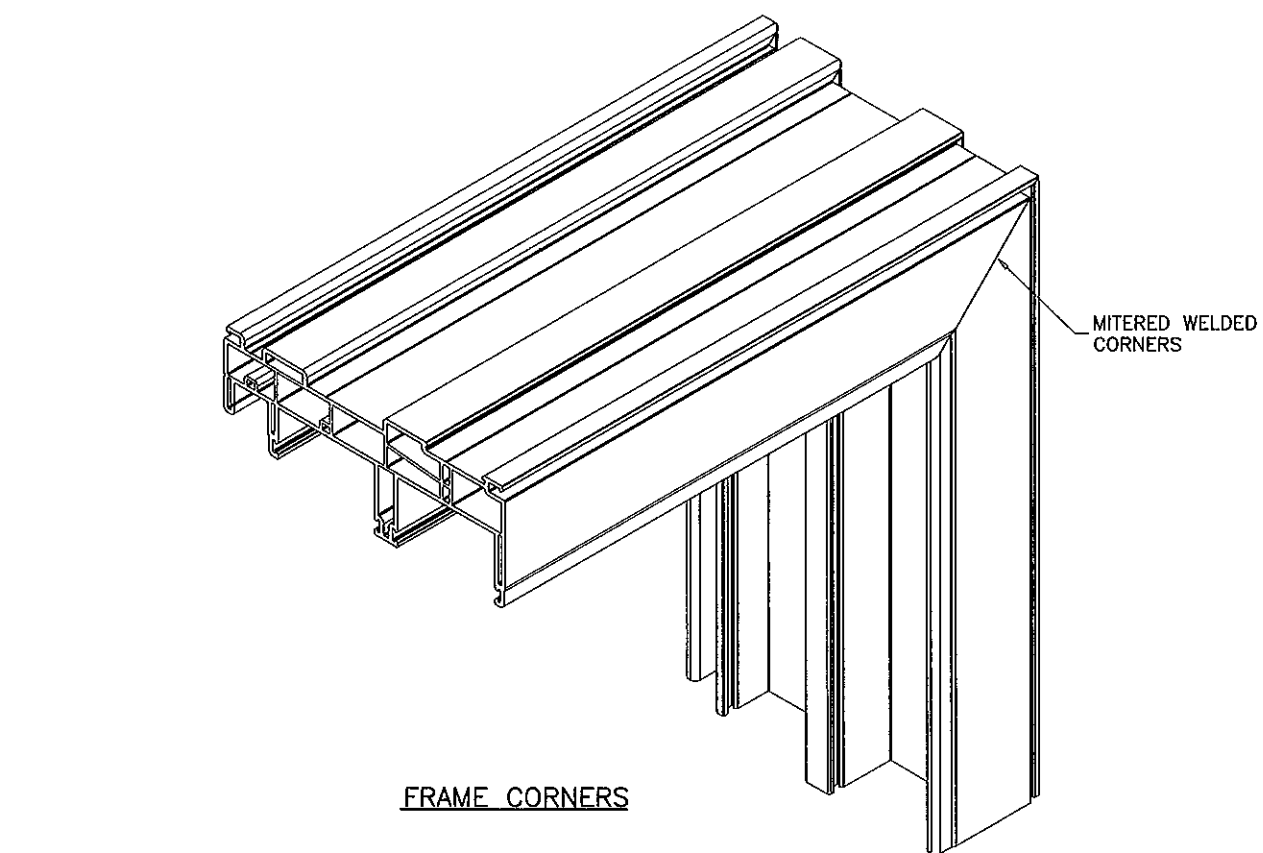
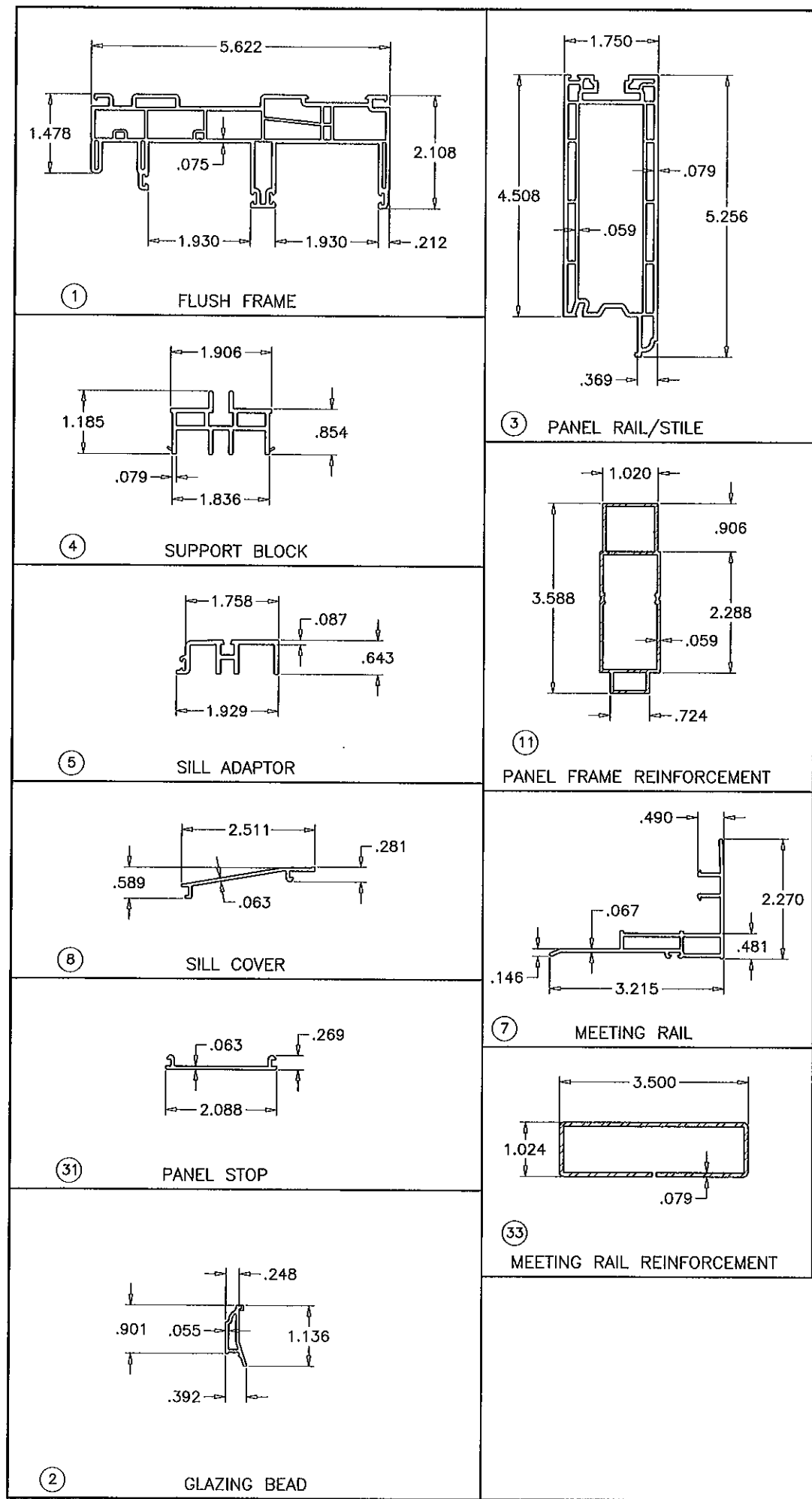
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date: 05-03-10	scale: 3/8" = 1"	dr. by: HAMID	chk. by:
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drawing no.  
**W10-29**  
 sheet 5 of 6



Engr: JAVAD AHMAD  
CIVIL  
FLA. PE # 70592  
C.A.N. 3538

DEC 27 2011

**PRODUCT REVIEW**  
in compliance with the Florida  
Building Code  
Acceptance No 12-0130.39  
Expiration Date DEC 25 2015  
By Ishag I. Chande  
Miami Date Product Control

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
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no	date	no	date	no	date	no	date	no	date
A	09.24.10	1	05-03-10	1	3/8" = 1"	1	05-03-10	1	05-03-10
B	12.22.11	2		2		2		2	

drawing no.  
**W10-29**

sheet 6 of 6